

Electric tooth-brush with contra-rotating cylindrical brushes - uses electric motor driving two gear coupled shafts having cylindrical brushes lying parallel to each other

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Abstract of BE 894944 (A1)

Translate this text

The toothbrush uses parallel contra-rotating cylindrical brushes, lying in the direction of the handle of the brush. The tooth brush uses a low voltage electric motor (a) driving a shaft which has a gear fitted mid-way along its length. This gear meshes with another (b) on a second shaft (c) lying parallel to the first shaft. - The cylindrical brushes (d) are fitted to the ends of these two shafts, and the assembly fitted into a protective housing. Variations on the cylindrical brush format are convex and concave sided cylindrical brushes (e) to better fit various tooth shapes.(B/4)

DESCRIPTION

Brush ♦ teeth rotary cylindrical brushes

Manual brush

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cylindrical corns vertical axis supporting them

piles. The rotation of the sets is ensured by the movement of to and from of the brush on the teeth.

The part of the supporting handle the cylindrical brushes is slotted and has the aspect of a fork.

This makes it possible the two cylinders to approach by elasticity or to deviate according to the thickness from the teeth, which is variable according to whether they are incisors, of canine or of molar.

The piles of the brushes are laid out of way

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teeth. For the same reason, the axes of the brushes are mounted on balls.

Electrical brush

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rant the rotation in opposite directions of two axes, which are carriers of the piles. The axes are horizontal. The rotary brushes work the low one in

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A form into plastic marrying you outer of the brushing cylinders prevents the friction of those on the cheeks or the language.

A set of removable brushes allows with a handle single an use of the apparatus by several

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for the top of the teeth, this as well for manual brush that for the electrical brush.

<EMI ID=6.1> a. handle bent (or straight) or straight of the 'brush.

B. elastic fork supporting brushes cylindrical.

<EMI ID=7.1>

brushes.

Figure B. Electrical brush

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B. gears ensuring the rotation in direction opposite of the axes.

C. axes carriers of the cylindrical brushes. D. cylindrical brushes interpenetrating like gears.

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they or electric).

CLAIM <EMI ID=10.1>
electrical).

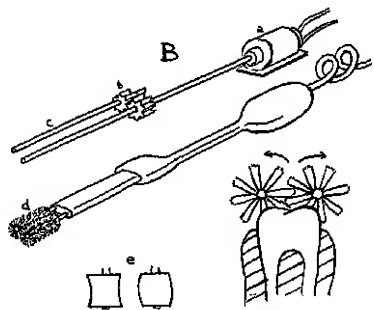
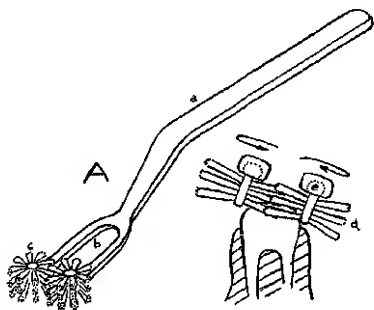
The piles in rotation act on the teeth like

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tionnelles.

The piles of the cylindrical brushes are laid out in order to have maximum cleanser effect. This is why various models of brushed are envisaged:
normal cylinder, concave cylinder (the shape of twin wheel), convex cylinder (the shape of barrel) or cylinder cut according to the shape of the teeth.

894944



8 novembre 1982 *Ch. Papart*